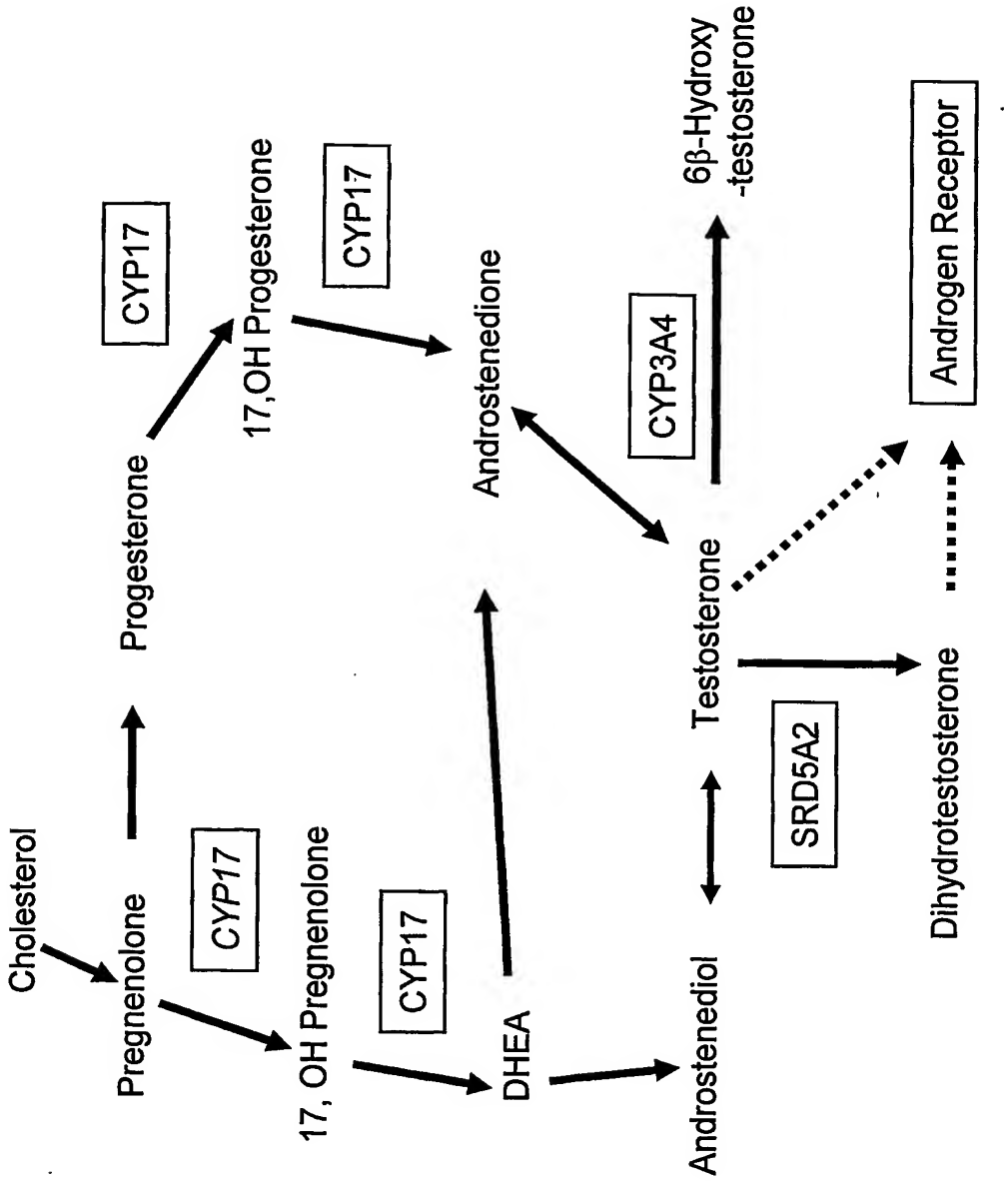


Figure 1: Testosterone biosynthetic pathway

CYP17A1

26 865 bp

	SNP29: -34T>C	SNP04: IVS1 +426G>A	SNP20: IVS1 +466G>A	SNP06: IVS1 -99C>T	SNP07: IVS2 +105A>C	SNP22: IVS2 -83C>T	SNP03: IVS5 +75C>G	Frequency (all)		Frequency (EA)		Frequency (AA)	
								Controls	Cases	Controls	Cases	Controls	Cases
Hap1	T	C	C	C	A	C	C	547 (.57)	527 (.60)	494 (.57)	475 (.60)	50 (.66)	47 (.62)
Hap2	C	T	.	T	C	.	G	259 (.27)	216 (.25)	253 (.29)	208 (.26)	5 (.07)	6 (.08)
Hap3	C	T	.	.	.	.	G	91 (.09)	86 (.10)	85 (.10)	79 (.10)	3 (.04)	7 (.09)
Hap4	Composite							63 (.07)	51 (.06)	42 (.05)	32 (.04)	18 (.24)	16 (.21)

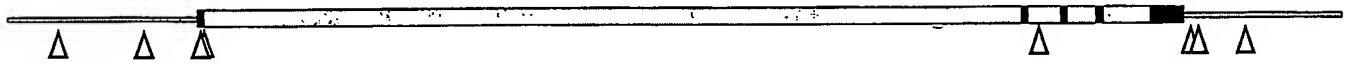
Figure 2A

	SNP47: -1232C>T	SNP12: -747C>G	SNP11: -392A>G	SNP01: IVS7 +34T>G	SNP13: IVS7 -202C>T	SNP24: stop +766 delT	SNP25: stop +1454C>T	SNP05: stop +1639A>T	SNP15: stop +2204G>C	Frequency (all) Controls	Frequency (all) Cases	Frequency (EA) Controls	Frequency (EA) Cases	Frequency (AA) Controls	Frequency (AA) Cases
Hap1	C	C	A	T	C	T	C	A	G	651 (.68)	596 (.68)	629 (.72)	577 (.73)	16 (.21)	13 (.17)
Hap2	.	G	.	.	.	.	.	.	.	65 (.07)	62 (.07)	64 (.07)	59 (.07)	1 (.01)	2 (.03)
Hap3	.	.	.	.	T	G	.	T	C	63 (.07)	64 (.07)	59 (.07)	58 (.07)	4 (.05)	6 (.08)
Hap4	T	.	G	G	T	G	.	T	C	45 (.05)	25 (.03)	34 (.04)	19 (.02)	10 (.13)	5 (.07)
Hap5	Composite									136 (.14)	133(.15)	88 (.10)	81 (.10)	45 (.59)	50 (.66)

Figure 2B

SRD5A2

76 341 bp



	SNP17: - 8029C>T	SNP26: - 3001G>A	SNP22: A49T (145G>A)	SNP20: V89L (265G>C)	SNP12: IVS2 + 626C>T	SNP01: stop + 1552G>A	SNP13: stop + 3059G>A	SNP15: stop + 9301G>C	Frequency (all)		Frequency (EA)		Frequency (AA)	
									Controls	Cases	Controls	Cases	Controls	Cases
Hap1	T	G	G	G	C	G	G	G	376 (.39)	348 (.40)	352 (.40)	321 (.40)	19 (.25)	20 (.26)
Hap2	C	A	.	C	T	.	.	C	218 (.23)	212 (.24)	206 (.24)	197 (.25)	11 (.14)	13 (.17)
Hap3	C	.	.	.	T	.	.	.	108 (.11)	84 (.10)	102 (.12)	81 (.10)	6 (.08)	3 (.04)
Hap4	C	.	.	.	.	A	A	.	73 (.08)	73 (.08)	70 (.08)	65 (.08)	-	7 (.09)
Hap5	C	A	.	C	T	.	.	.	41 (.04)	42 (.05)	41 (.05)	42 (.05)	-	-
Hap6									32 (.03)	27 (.03)	19 (.02)	20 (.03)	13 (.17)	7 (.09)
Hap7	Composite								112 (.12)	94 (.10)	84 (.10)	68 (.09)	27 (.36)	26 (.34)

Figure 2C